Figure 10

Heavy chains: "murine 13G9" disclosed as SEQ ID NO: 20, "humanized 13G9 v1" disclosed as SEQ ID NO: 24, and "hum III" disclosed as SEQ ID NO: 58.

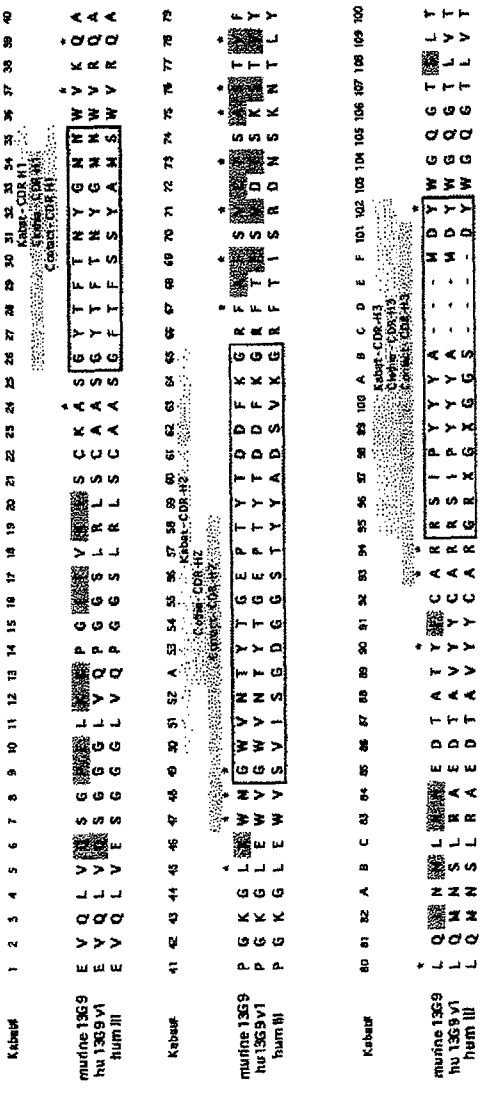


Figure 12

Hu13G9 Light chain

FR1-LC: DIQMTQSPSSLSASVGDRVTITC (SEQ ID NO: 24)
FR2-LC: WYQQKPGKAPKALIY (SEQ ID NO: 25)
FR3-LC: GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC (SEQ ID NO: 26)
FR4-LC: FGQGTKVEIKR (SEQ ID NO: 27)
HVR1-LC: KASQNVGSNVA (SEQ ID NO: 28)
HVR2-LC: SASYRYS (SEQ ID NO: 29)
HVR3-LC: QQYKTWT (SEQ ID NO: 30)
CL: TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQES
VTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC (SEQ ID NO: 31)

LC-Variable domain:
DIQMTQSPSSLSASVGDRVTITCKASQNVGSNVAWYQQKPGKAPKALIYSASYRYSGVPS
RFSGSGSGTDFTLTISSLQPEDFATYYCQQYKTWTFGQGTKVEIKR (SEQ ID NO: 32)

Hu13G9 Heavy chain

FR1-HC: EVQLVQSGGGLVQPGGSLRLSCAAS (SEQ ID NO: 33)
FR2-HC: WVRQAPGKGLEWV (SEQ ID NO: 34)
FR3-HC: RFTFSVDTSKSTVYLQMNSLRAEDTAVYYC (SEQ ID NO: 35)
FR4-HC: WGQGTLVTVSS (SEQ ID NO: 36)
HVR1-HC: GYTFTNYGMN (SEQ ID NO: 37)
HVR2-HC: NTYTGEPTYTDDFKG (SEQ ID NO: 38)
HVR3-HC: ARRSIPYYYAMDY (SEQ ID NO: ~~38~~)

CH1: ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS
GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHT (SEQ ID NO: ~~39~~)

Fc: GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG
PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREE
MTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW
QQGNVFSCSVMHEALHNHYTQKSLSLSPGK (SEQ ID NO: ~~40~~)

HC-Variable domain:
EVQLVQSGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWVNTYTGEPTY
TDDFKGRFTFSVDTSKSTVYLQMNSLRAEDTAVYYCARRSIPYYYAMDYWGQGTLVTVSS (SEQ ID NO: ~~41~~)

Figure 10

Heavy chains: "murine 13G9" disclosed as SEQ ID NO: 20, "humanized 13G9 v1" disclosed as SEQ ID NO: 57, and "hum III" disclosed as SEQ ID NO: 58.

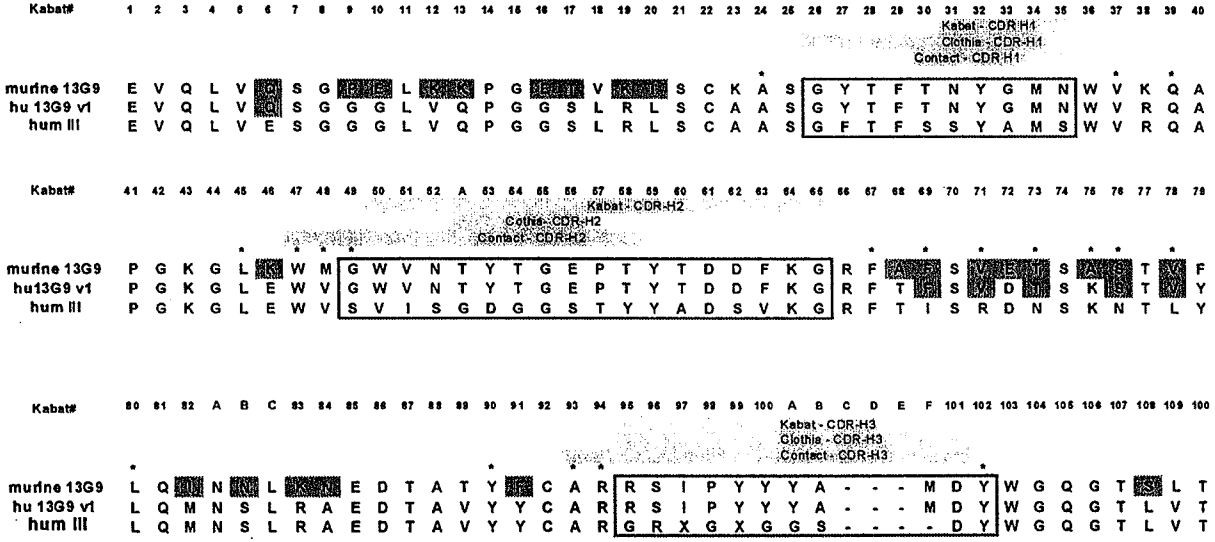


Figure 12

Hu13G9 Light chain

FR1-LC: DIQMTQSPSSLSASVGDRVTITC (SEQ ID NO: 24)
FR2-LC: WYQQKPGKAPKALIY (SEQ ID NO: 25)
FR3-LC: GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC (SEQ ID NO: 26)
FR4-LC: FGQGTKVEIKR (SEQ ID NO: 27)
HVR1-LC: KASQNVGSNVA (SEQ ID NO: 28)
HVR2-LC: SASYRYS (SEQ ID NO: 29)
HVR3-LC: QQYKTWT (SEQ ID NO: 30)
CL: TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQES
VTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC (SEQ ID NO: 31)

LC-Variable domain:
DIQMTQSPSSLSASVGDRVTITCKASQNVGSNVAWYQQKPGKAPKALIYSASYRYSGVPS
RFSGSGSGTDFTLTISSLQPEDFATYYCQQYKTWTFGQGTKVEIKR (SEQ ID NO: 32)

LC-Variable domain + CL discloses SEQ ID NO: 70

Hu13G9 Heavy chain

FR1-HC: EVQLVQSGGGLVQPGGSLRLSCAAS (SEQ ID NO: 33)
FR2-HC: WVRQAPGKGLEWV (SEQ ID NO: 34)
FR3-HC: RFTFSVDTSKSTVYLQMNSLRAEDTAVYYC (SEQ ID NO: 35)
FR4-HC: WGQGTLVTVSS (SEQ ID NO: 36)
HVR1-HC: GYTFTNYGMN (SEQ ID NO: 37)
HVR2-HC: NTYTGEPTYTDDFKG (SEQ ID NO: 38)
HVR3-HC: ARRSIPYYYAMDY (SEQ ID NO: 39)

CH1: ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS
GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHT (SEQ ID NO: 40)

Fc: GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG
PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREE
MTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW
QQGNVFSCSVMHEALHNHYTQKSLSLSPGK (SEQ ID NO: 41)

HC-Variable domain:
EVQLVQSGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWVNTYTGEPTY
TDDFKGRFTFSVDTSKSTVYLQMNSLRAEDTAVYYCARRSIPYYYAMDYWGQGTLVTVSS (SEQ ID NO: 42)

HC-Variable domain + CH1 + Fc discloses SEQ ID NO: 71